INSTITUTE OF TECHNOLOGY
UNIVERSITY OF MORATUWA

STUDENT HANDBOOK

NATIONAL DIPLOMA IN TECHNOLOGY PROGRAMME

2020

ITUM VISION

To be a centre of excellence in Technological Education.

ITUM MISSION

To be a dynamic technological institute in the region and actively contribute to the educational, economic and social advancement of Sri Lankan community by:

- **Providing accessible, flexible and efficient technological education and skills training to meet the needs of society and the industry.**
- **Providing an environment for innovation and creativity.**
- **Formulating an active collaboration with the industry, business and the community for career opportunities.**
- **Enhancing social and economic pathways and opportunities for young people.**

Foreword

Welcome to the Institute of Technology, University of Moratuwa (ITUM).
This booklet will provide information pertaining to the academic courses of the National Diploma in Technology programme, and the functions and activities of the two main administrative branches of the ITUM, namely, the Administrative Division and the Finance Division.
The information contained in the booklet were obtained from the Heads of all Divisions of ITUM and therefore it is up to date. Every effort will be made to keep the students informed of any change made from time to time.
We sincerely hope that every student will make maximum use of the information provided, to reap the benefits of the course and pursue higher studies to enhance his/her future prospects.
A word of appreciation is extended to the Vice-Chancellor, Heads of all Academic and Administrative Divisions and Training engineer of ITUM for their messages and the information provided in order to make this publication a worthwhile exercise.
The committee wishes to note the support of Ms. M. M. S. M. Maheepala to design the cover page of this student hand book.

ITUM Student Hand Book Committee 2020
Dr.(Mrs.) W. P. S. K. Perera
Dr.(Mrs.) D.D.G.A.D.S. Saparamadu
Dr.(Mrs.) G.K. Jayathunga
Mrs. A.W.C.K. Atugoda

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1. A BRIEF HISTORY OF THE INSTITUTE OF TECHNOLOGY, UNIVERSITY OF MORATUWA

The Institute of Technology was established on 10th March 2000 by the Honourable Minister of Education and Higher Education primarily to conduct NDT and other similar level courses at the University of Moratuwa. But the history of the NDT programme dates back to the period of Ceylon Technical College Maradana established in 1893.The origin of the NDT programme had been at Maradana Technical College, as the Junior Technical Offices (JTO) course. The J.T.O course was later transferred to the Institute of Practical Technology (IPT) at Katubedda, when this institute was formed in 1960, with aid from the Government of Canada on a fifty acre block of land over-looking the BolgodaLake.

The primary aim of the IPT was to provide full time courses for architects, junior technical officers, surveyors &levellers and draughtsmen. This Institute also offered part time courses in engineering studies for those employed in the government and private sectors, and also prepared students for foreign professional examinations of the Institution of Engineers, UK and the Royal Institute of British Architects. The courses in architecture however, were later transferred to the University of Ceylon, Colombo when it established its own Department of Architecture.

The Institute of Practical Technology witnessed its first change of status, six years after its inception. The Government of Ceylon found that an effective system of specialized education and training capable of supplying the country with the necessary scientific and technical personnel was a prerequisite to achieve and sustain rapid development. It therefore appointed a 'Commission of Inquiry on Technical Education in 1961. As engineering education at a higher level was provided exclusively by the Faculty of Engineering of the University of Ceylon, Peradeniya, this Commission in its report of 1963, recommended the enhancement of facilities to professional engineering education. It was therefore decided to establish the Ceylon College of Technology at Katubedda, utilising the resources of the Institute of Practical Technology. Assistance for this project was provided by the United Nations Development Programme through UNESCO. The Ceylon College of Technology was thus begun with its new courses on a professional level in 1966. The Institute of Practical Technology continued in the same premises with its full-time courses, but was amalgamated with the Ceylon College of Technology. The year 1967 witnessed the introduction of the NDT programme that succeeded the JTO courses of study. The engineering degree and technician programme of the Ceylon College of Technology were designed to have an industrial bias with the inclusion of a compulsory period of in-plant training so that the College would produce an engineer or technician with practical training as an integral part of his study. Within the next six years of its existence, the Ceylon College of Technology earned University status.
Under the provisions of the University Act No 01 of 1972, the University of Ceylon was established on the 15th of February 1972, incorporating all the existing universities and the Ceylon College of Technology as campuses of a single university. The Ceylon College of Technology thus became the Katubedda

Campus of the University of Ceylon. The Department of Architecture from the then University of Ceylon, Colombo campus and the Technical Teacher and Instructor Training Institute at Ratmalana established with aid from the International Labour Organization were transferred to this newly formed Katubedda campus. It began with just one faculty, that of Engineering and Architecture. The first President of the Campus was Dr. L. H. Sumanadasa who steered the progress of the Institution from its inception as Principal of the Institute of Practical Technology, and then as the Director, Ceylon College of Technology. Later he was appointed as the Vice – Chancellor of the University of Ceylon.

When Ceylon subsequently became a Republic in 1972, the corporate name of the single university was changed to University of Sri Lanka. In the meantime, the departments of study at the Katubadda Campus were expanded and new courses of study at technician, undergraduate and post graduate levels were introduced. The School of Applied Science was established in 1974. The Sub-department of Rubber Technology now titled Polymer Technology was established in 1976. The Department of Town and Country Planning and the Sub–departments of Textile Technology and Marine Engineering were established later.

Further changes in the corporate structure and composition were affected by the Universities Act No.16 of 1978. Under the provisions of section 139(1) of this Act, the Katubedda Campus of the University of Sri Lanka acquired the status of an independent University with its present corporate name 'University of Moratuwa, Sri Lanka, with three faculties of study viz, the Faculty of Engineering, the Faculty of Architecture and Town & Country Planning and the Faculty of Physical and Applied Science. Later the Faculty of Physical and Applied Science was amalgamated with the Faculty of Engineering. In August 1983, the Technical Teacher unit was transferred to the Ministry of Higher Education to function as an independent institution within its own premises. The NDT program continued to be conducted under the Faculty of Engineering. The director Technicians Studies functioned under the Dean of Engineering. The year 1986 was an important year for NDT students. This was the year in which the conducting and evaluation of the NDT programme was taken over by the University from Ministry of Higher Education. The intake for NDT course was 350 at that time. Further, in 1986 a new NDT course was inaugurated in Nautical Science and Technology. The NDT curricula were vastly improved in 1995. (History and Development National Diploma in Technology, Eng. J.K. Lankathilake)

Next few years, three faculties of the University of Moratuwa and the NDT programme functioned within the same highly congested original premises, sharing all the facilities as well as all the associated difficulties as such type of arrangements usually entail. As the University gradually developed qualitatively as well as quantitatively, sharing facilities started creating unwanted pressure situations, hampering the development of all entities.

The Institute of Technology of the University of Moratuwa (ITUM) was established in the year 2000 to administer mainly the National Diploma in Technology programme, under a separate institutional set-up directly attached to the main university, utilizing an established practice in the Sri Lankan university system.

From the beginning of its existence, the ITUM was destined to find new home premises of its own, So that it could embark on the much needed multi-faceted development it deserves.

The Relocation & Development Project of the ITUM started at Diyagama, Homagama, about 15 km away from University of Moratuwa become the welcome answer to this long term need. This major project, was said to be the biggest investment by the state to a higher educational institute in the recent past. It has impressive state-of-the-art building complex comprising of all the traditional facilities such as lecture theatres, laboratories, hostels etc. as well as some novel features such as a huge multifunctional theatre hall and a supermarket complex. The project also led to the much needed increase in student numbers intake. As a result, the hostels provided within the campus have ample rooms to accommodate all the students of the institute. All the necessary brand new machinery, equipment and furniture were supplied and installed as one of the goals of the project. In addition, all the academic, the administrative and the non-academic staff currently attached to the institute, were offered several local as well as abroad training under the project, enhancing their capabilities further to facilitate the eventual upgrading of the quality of the national service they provide.

The Relocation & Development project of the ITUM, happened on a very fast tract compared to the normal Sri Lankan standards of such activities. The grand institutional premises were completed and ceremonially opened in the year 2017 and dedicated to the people of Sri Lanka, particularly to the younger generation, who will be the direct beneficiaries of this remarkable national effort.

It is expected that this relocation and development will lead the ITUM to become a center of excellence among similar intuitions not only within mother Lanka, but also within the regional global setting too.

2. INTRODUCTION TO THE COURSE

We are pleased to admit you to the course leading to the National Diploma in Technology, of the Institute of Technology, University of Moratuwa (ITUM).

The primary aim of the course is to produce middle- level technical personnel required by the industry of our country in various disciplines. We conduct the NDT programme in ten disciplines with a total intake of 800.The breakdown is as follows:

Chemical Engineering Technology	-	50
Civil Engineering Technology	-	200
Electrical Engineering Technology	-	100
Electronic and Telecommunication Engineering Technology	-	100
Marine Engineering Technology	-	20
Mechanical Engineering Technology	-	100
Nautical Studies	-	20
Polymer Technology	-	50
Textile and Clothing Technology	-	60
Information Technology	-	100
for Armed Forces& University non-academic staff	-	05

A fully fledged diplomate is initially expected to function as the link between the professional Engineer or Manager and the workforce at the field/shop level. This role requires a diplomate to develop professionally and improve his communication and managerial skills. He/She needs to educate himself/herself in the chosen study field of study so that he/she would be able to appreciate the innovations/designs by the professional engineer and would be able to communicate with the subordinates and make an innovation/design a reality.

Thus the course consists of a two- year academic study period and one year industrial training. The first year subjects are designed mainly to equalize, consolidate and improve the student's knowledge in basic sciences and to introduce the specialized discipline of study to which he/she has been selected. It will also give exposure to some basic skills required in engineering practice (e.g. Workshop Technology, Engineering Drawing). Each discipline offers one or more field subject/s of the student's chosen field of study. (e.g.) Civil Engineering Department offers Building Construction for the Civil Engineering stream)

English Language is a compulsory subject in the first year due to the following reasons:

i. Communication plays an important role in a diplomate's career. Therefore students are required to develop their skills in comprehension, speech and report- writing. .
ii. The NDT course is conducted entirely in the English medium. Since most of the students have done their studies in Sinhala or Tamil medium up to the GCE (A/L), their levels of proficiency in the English language vary widely and there is always room for improvement.

The second year subjects mainly include the application of various engineering phenomena in the selected field of study.

The third year has been allocated for obtaining the required hands-on experience in the industry. Training at the accepted industrial establishments is organized and monitored by the National Apprenticeship and Industrial training Authority (NAITA) and the Lecturer in charge of Industrial Training at the ITUM.

At the end of the three years of education and training, the successful students are awarded the National Diploma in Technology with a grade point average value (GPA), as per the performance criteria approved by the University.

The new academic semester curriculum now in operation at the ITUM was introduced in the year 2018 for the first year students of that year. The purpose was to broaden the outlook of students and instil in them a sense of confidence and responsibility in their selected fields of study, while keeping abreast of current technological advances in the industrial world.

3. PAST DIRECTORS – INSTITUTE OF TECHNOLOGY, UNIVERSITY OF MORATUWA

	Prof. (Mrs.) I. J. Dayawansa *(Acting)*	Jul. 2000 – Nov. 2000
	Dip. Ing. N. L. Wanigathunga	Nov. 2000 – Jul. 2001
	Dr. T. A. Piyasiri	Aug. 2001 – Dec. 2003
	Dr. M. A. R. V. Fernando *(Acting)*	Jan. 2004 – Mar. 2004
	Prof. D. C. H. Senarath *(Acting)*	Apr. 2004 – Sep. 2004
	Prof. K. K. C. K. Perera	Sep. 2004 – Sep. 2007
	Dr. T. A. G. Gunasekara	Sep. 2007 – Sep. 2013
	Mrs. M. M. P. D. Samarasekera	Sep. 2013 – May. 2019
	Major General(Retired) Shantha Kumar Thirunavukarasu	May. 2019 – Jan. 2020
	Dr.Sunil Jayantha Nawarathne	Jan.2020 – July 2020

4. MEMBERS OF THE BOARD OF MANAGEMENT

1.	Prof. S.M.A.Nanayakkara	Competent Authority Institute of Technology, University of Moratuwa
2.	Mr. T. N. Hettiarachchi	Nominee of the Secretary to the Ministry of the Minister in charge of the subject of Higher Education
3.	Mr. A.W. Seneviratne	Nominee of the Secretary to the Ministry of the Minister in charge of the subject shipping
4.	Mrs. R.M.A.P. Samaradiwakara	Nominee of the Chairman of the National Apprentice and Industrial Training Authority (NAITA)
5.	Prof. N. Wickramaarachchi	Dean, Faculty of Engineering University of Moratuwa
6.	Dr. D. P. Chandrasekara	Dean, Faculty of Architecture University of Moratuwa
7.	Prof. (Mrs.) Kalyani Perera	Council Nominee
8.	Prof. A.S. Karunananda	Senate Nominee
9.	Dr. Priyantha Premakumara	Nominees of the University Grants Commission (UGC)
10.	Dr. Charith Jayathilake	
11.	Mrs. N.K. Abeyrathne Dias	
12.	Mrs. C.P.N. Attygalle	Nominees Board of Studies/ITUM
13.	Dr. (Mrs.) W.B.M. Thoradeniya	
14.	Mr. N.D. Kuruppuarachchi	Secretary

5. MESSAGE FROM THE VICE- CHANCELLOR

Vice- Chancellor
Prof. K. K. C. K. Perera

Education is a one of the most valuable gifts that one could be given or received. Socio-economic systems in any sphere of activity have been evolved, established and sustained through educated societies. Education will continue to be a vital force in incorporating inclusiveness, building social cohesion and economic resilience as a result of rapid and complex changes of geopolitics, economics and environment. Thus, our future students, staff and graduates will be interacting in diverse ways with a quite different world than today. Strategically employing new technologies, innovations, entrepreneurship, diversification etc., is essential in modern day education. Simultaneously, developing appropriate physical infrastructure and human resources in par with modern day education processes holds the key to empowering the societies to provide impetus for socio-economic development amidst complex global challenges.

As described above, investing more in human capital has higher returns and the technological development is skills based. With this conviction government of Sri Lanka has gifted a master class, state of the art facility to the Institute of Technology, University of Moratuwa (ITUM) to effective delivery of National Diploma in Technology or popularly known as the NDT program conducted by the ITUM. In responding and acknowledging the government's commitment the ITUM has responded promptly by increasing its annual intake to 800 in 2018 and another batch of 800 students were taken in 2019. Furthermore, ITUM has diversified its program based on the industry needs. Introduction of modules to the curricula to inculcate socio-emotional skills to complement the development of cognitive skills is also greatly applauded.

Commitment of the University of Moratuwa to ensure ITUM is pursuing its vision and be responsive and adaptive to make Sri Lanka be a knowledge-based economy is reiterated.

6. ADMINISTRATION DIVISIONS

Deputy Registrar

Mr. N. D. Kuruppuarachchi
BSc. (Natural Sc.), M Sc., PGDMM, MBA

Assistant Registrars

1.Division of General Administration

Mrs. L. P. Perera
B A (Social Sc.)

2.Division of Academic and Student Affairs

Ms. K. H. W. Malepathirana
B Sc. (Business Mgt.)

3. Division of Examinations

Ms. R. M. H. A. Lakmali
BA (Econ.)

The Institute of Technology was established in the year 2000 by Ordinance No 3 of 2000 under section 24 A of the Universities Act No. 16 of 1978 to conduct primarily the National Diploma in Technology Course. Seventeen batches of students were admitted to the Institute since then and 18th batch of students has been enrolled for the year 2018/2019 with the intention of making a significant contribution towards national development in the years to come.

Authorities of the Institute

- The Board of Management
- The Board of Studies
- Board of Residence and Discipline
- The Divisional Committees

The Board of Management is the academic and executive body of the Institute, the Board of Studies has the control and general direction of instructions, education research and examinations of the Institute. Board of Residence and Discipline deals with the matters pertaining to condition of residence and discipline. The Institute has the following five Divisions at the moment.

- Division of Civil Engineering Technology
- Division of Electrical, Electronics and Telecommunication Engineering Technology
- Division of Mechanical Engineering Technology
- Division of Maritime Studies

- Division of Information Technology
- Division of Interdisciplinary Studies
- Division of Polymer and Chemical Engineering Technology
- Division of Textile and Clothing Technology

Each Division has a Divisional committee to present recommendations on matters connected with the courses of study in respect of its speciality to the Board of Studies.

The ITUM has two main administrative branches. They are General Administration branch and Financial Administration branch. The General Administration Branch consists of Divisions of Human Resources, Academic and Student Affairs, General Administration and Examinations.

6.1 Division of Human Resources

Division of Human resources mainly handles the activities related to staff of the Institute. Accordingly, it facilitates providing human resources for academic teaching and academic supporting purposes. The Division manages recruitments, retirements & resignations, promotions and confirmations. It also completes various tasks related to the payment of annual salary increments and other regulatory work.
The Division is located at the seventh floor (U7) of the main administration building.

6.2 Division of General Administration

Division of General Administration provides all kinds of supportive work for the smooth functioning of the Institute. Administration of supportive work such as electricity, water, security, cleaning, transportation, welfare activities, managing of other infrastructure facilities and relevant routine work are done by the General Administration Division.
The Division is located at the fourth floor (U4) of the main Administration Building.

6.3 Division of Academic and Student Affairs

Division of Academic and Student Affairs handles admission tests, registration of students on admission, welfare activities of the students and other administrative functions related to the students. The Division is located at the third floor (U3) of the main Administration Building.

Services extended to the students:

- Mahapola Scholarship Award
  Under this scheme, payment will be made in 10 instalments per Academic year to students selected on Merit

- Bursary
  Under this scheme, payment will be made in 10 instalments per Academic year to students selected as per the family income.

- Bus/Train season tickets will be issued to relevant students on request.

- Hostel facilities will be available for students following the 1st and 2nd years of the programme.

6.4 Division of Examinations

The Division of Examinations is responsible for all the examination related matters and various student related services such as;

- Managing all examination process in accordance to the Institute's rules and regulations
- Compilation and declaration of results and maintaining the records
- Issuing Result Sheets, Academic Transcripts and Diploma Certificates
- Conducting the Diploma Awarding Ceremony
- Verification of Certificates on request
- Issuing Course Completion Letters

The Division is located at the sixth floor (U6) of the main Administration Building.

7. DIVISION OF FINANCE

Senior Assistant Bursar

Accounts, Salaries & Loan Section

Mrs. S. P. D. Peiris
B.Com (Sp)-KLN, PGDIP (Pub. Mgt.)-SLIDA,MPM – SLIDA, CBA, APFASL

Assistant Bursars

1. Payments
   Mrs. A. Liyanagamage
   LICA

2. Supplies
   Mrs. P.J. Weerakkodiarachchi
   MBS-COI, BSc.MA- USJP CBA & MAAT

The Finance Division of the Institute of Technology, University of Moratuwa (ITUM) is responsible for carrying out the following activities that can be broadly classified under financial management activities, under the guidance of the Board of Management of the Institute and in compliance with the government financial rules and regulations.

- Establishing financial objectives
- Planning
- Budgeting
- Setting financial targets
- Ensuring
  - proper financial control systems
  - proper management information systems
  - good internal control for financial matters.
- Monitoring, reviewing and performing corrective actions
- Preparing monthly progress Reports and annual accounts

The Senior Assistant Bursar and two Assistant Bursars are assisted by a staff consisting of a Management Assistant (Book Keeping), Management Assistant (Storekeeping), Management Assistant (Shroff),
two other Management Assistant and two Works Aids to ensure proper administering of funds and maintaining proper books of accounts under the Institute Ordinance and guidance of the Director and compliance with relevant rules and Regulations imposed by UGC.

Within the broader financial management activities of the Finance Division some of the specific functions carried out by the Division listed below can be considered as useful for all the students.

- ✓ All payments to the students which includes Payment of Bursary and Mahapola.

- ✓ Receiving of payments by the students which include Registration, Hostel Fees, Library Fines, Certificate Fees, Application Fees and Award ceremony Fees and etc.

It is important for all the students to be mindful that the ITUM spends approximately Rs. 297,850/= per year for each student according to the year 2017 records. Funds for the ITUM are provided by the General Treasury and these are all public funds. As such, it is the duty of the Senior Assistant Bursar and Assistant Bursars to ensure equity and accountability to all stakeholders of public funds while providing the best service to the students at the ITUM in an effective and efficient manner.

8. ACADEMIC DIVISIONS OF THE INSTITUTE OF TECHNOLOGY

8.1 Division of Civil Engineering Technology

Head of the Division

Dr. (Mrs) N. P. K. Semanada – Senior Lecturer Grade II
NDT, M Sc (UniSA), PhD (UniSA)

Academic Staff

Dr. (Mrs.) Bhadranie Thoradeniya - Senior Lecturer Grade I
NDT, PG Diploma (Moratuwa), M. Sc.(Netherlands),
M. Phil. (OUSL), PhD (Moratuwa), FIIESL, MSLAAS

Mrs. M. M. P. D. Samarasekera – Senior Lecturer Grade I
B.Sc. (Eng.) (Moratuwa), M. Eng. (Moratuwa), MPhil (Moratuwa)

Mrs. G.W.T.C. Kandamby – Senior Lecturer Grade II
B.Sc. (Eng.) (Moratuwa), M. Eng. (Moratuwa), MPhil (Moratuwa),
C. Eng. MIE (SL)

Mr. K. A. B. Weerasinghe – Lecturer (Probationary)
B.Sc. (Eng.) (Moratuwa), AMIE (SL)

(On Study Leave)

Mr. D. N. Gunasekara – Lecturer
B.Sc. (Eng.) (Moratuwa), M.Sc. (Moratuwa), AMIE (SL)

Mr. Sanjaya Madhuranga - Lecturer (Probationary)
B.Sc. (Eng.) (Moratuwa),

Mr. A U V B Bulathsinhala - Lecturer (Probationary)
NDT, M. Eng (UWE)

Ms. K A G S Kariyawasam – Lecturer (on –contract)
NDT, M. Eng (UWE)

The NDT programme in Civil Engineering Technology is conducted by the Division of Civil Engineering Technology with the objective of producing qualified professionals for the civil engineering industry. It consists of academic activities at the ITUM in the first and the second years within 4 semesters. The third year consist of two semesters in industrial training. The annual student intake to the Civil Engineering Technology discipline is 200.

The civil engineering industry is about construction and maintenance of buildings, bridges, roads and railways, dams and reservoirs, water supply and waste disposal schemes, major and minor irrigation schemes, tunnels and power houses, runways, airports, harbours and coastal structures etc.

The first year study programme is mainly focused on the theoretical subjects where the students are expected to gain a thorough knowledge in the fundamental principles of engineering. The students are also exposed to the basics of building construction technology in the first and second semesters of the first year.

The semester 3 and 4 study programmes in the second year aim at giving a broad based knowledge in different applications of the civil engineering industry such as Construction Technology, Environment Engineering, Water Resources Engineering and Highway Construction and Maintenance. The principles, theory, design and applications of the above major civil engineering sectors are encompassed in the curriculum. The core modules such as Advanced Mathematics, Structural Mechanics, Theory and Design of Structural Elements, Hydraulics and Hydrology, and Soil Mechanics and Geology are included to give the desired theoretical background.

The students are exposed to a thorough knowledge of engineering surveying and levelling throughout third and fourth semesters including a two weeks residential camp in the curriculum to give the essential skills and competencies in surveying required by the civil engineering diploma holders. Further soft skills are developed through modules in enhancing English language skills, and communications and ethics. The students are provided sufficient opportunities to develop their writing and presenting abilities through a number of modules.

Sufficient knowledge in Quantity Surveying, Engineering Economics and Accounting and management in civil engineering are provided at the third and fourth semesters to prepare the students for the first level management roles they are expected to be employed within the first few years of their careers after passing out.

The culmination of the learning is showcased through two modules allocated for group projects each during the semesters 3 and 4.

Course Curriculum

Civil Engineering Technology

Semester 1 (15 weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1103	English Language Skills Enhancement I	2
IT1103	Computer Applications	2
IS1101 IS1205	Aesthetic studies **OR** Sports Studies	2
CI1101	Building Technology I	3
Total		**25**

Semester 2 (15 weeks)

Module Code	Module Name	Credits
IS1204	Mathematical Methods with Engineering Applications	3
EE1202	Electro-Technology	3
ME1201	Applied Thermodynamics I	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1203	English Language Skills Enhancement II	2
CI1202	Computer Applications in Civil Engineering I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
CI1201	Building Technology II	3
Total		**25**

Semester 3 (15 weeks)

Module Code	Module Name	Credits
IS2301	Advanced Mathematics and Statistics	2
CI2301	Civil Engineering Management I	2
CI2302	Communications and Ethics in Civil Engineering	1
CI2303	Construction Technology	3
CI2304	Hydraulics and Hydrology	3
CI2305	Project I	1
CI2306	Quantity Surveying	2
CI2307	Soil Mechanics and Geology	3
CI2308	Structural Mechanics	3
CI2309	Surveying and Levelling I	4
Total		**24**

Semester 4 (15 weeks)

Module Code	Module Name	Credits
CI2401	Analysis and Design of Structural Elements	3
CI2402	Building Services Engineering	2
CI2403	Civil Engineering Management II	2
CI2404	Computer Applications in Civil Engineering II	1
CI2405	Engineering Economics and Accounting	2
CI2406	Environmental Engineering	3
CI2407	Highway Construction and Maintenance	3
CI2408	Project II	2
CI2409	Surveying and Levelling II	3
CI2410	Water Resources Engineering	3

Module Code	Module Name	Credits
CI2411	Survey camp (project based)	2
Total		**26**

8.2 Division of Electrical and Electronics Engineering Technology

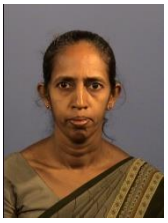
Head of the Division

Eng. G. D. Nanayakkara - Senior Lecturer Grade II
B. Tech (Eng.), EC(UK), Mphil (Moratuwa), MIEE(UK), FIIE(SL), MIE(SL), C.Eng.(UK), C.Eng.(SL), FTC(UK), MIGA(USA)

Academic Staff

Eng. (Mrs.) D. Y. T. Bambaravanage – Senior Lecturer Grade II
B.Sc. (Eng.) (Moratuwa), M. Eng. (Moratuwa), Mphil (Moratuwa)
C. Eng. MIE (SL), MIEEE

Mrs. S. M. Kannangara - Senior Lecturer Grade II
B.Sc. (Colombo), Mphil (Moratuwa)



Mrs. B.A.S.Priyanka – Lecturer
B.Sc. (Sri Jayawardhanapura),M.Sc (SL)
(On Study leave)

Eng. G. A. M. D. Wickramathilaka - Lecturer
B. Sc. (Eng.), M. Eng. (Moratuwa), AMIE(SL)
(On Study Leave)

Eng. (Ms.) A. W. C. K. Atugoda - Lecturer
B. Tech. (Eng.), M.Sc.(Moratuwa), AMIE (SL)

Eng. (Ms.) R. Shanthiga - Lecturer (Probationary)
B. Tech. (Eng.), AMIE (SL)

Eng. M. M. Mafroos - Lecturer (Probationary)
B.Eng. (IIUM-Malaysia), AMIE (SL)
(On Study Leave)

This division encompasses NDT studies related to two fields namely,

1. Electrical Engineering Technology
2. Electronics & Telecommunication Engineering Technology

The NDT courses of Electrical Engineering Technology and Electronics & Telecommunication Engineering Technology are 3-year diplomas geared to meet the needs of the industry and thus the passed out diplomats will have to play an important role in forming a link between the Engineers and the rest of the workforce in the industry.

It has its academic activities at the ITUM during the first two years - as 4 semesters. The third year is the 5th and 6th semesters during which the students are exposed for an industrial-training. The annual student intake to the Division is 200; 100 number of students for each academic field.

Electrical Engineering Technology is mainly about construction, installation, maintenance and control of power systems, motors, drives, related equipment etc.; Electronics and Telecommunication Engineering Technology is mainly about construction, maintenance and control of Electronic Systems and Devices, Telecommunication Systems, related equipment etc.

The first year study programme is mainly focused on the theoretical subjects where the students are expected to gain a thorough knowledge in the

fundamental principles of engineering. The students are also facilitated to study the basics of the fields of electrical and electronic engineering technology during these two semesters. During the 3rd semester the program is targeted for the students to become more aware of the field related knowledge/ applications while the 4th semester is to facilitate them to be more conversant on the field related applications.

The culmination of the learning is showcased through two modules allocated for group projects each during the semesters 3 and 4.

In Addition to the core subjects the Division offers modules for various other fields such as Applied Sciences, Electro-Technology, Applied Electricity and Electro-Technology I.

As per the revised curriculum, the modules offered to students for all 4 semesters in the two fields are listed below.

Course Curriculum

1. Electrical Engineering Technology

Semester 1 (15 weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 IS1205	Aesthetic studies **OR** Sports Studies	2
IT1103	Computer Applications	2
IS1103	English Language Skills Enhancement I	2
EE1101	Fields and Networks	3
Total		**25**

Semester 2 (15 weeks)

Module Code	Module Name	Credits
IS1204	Mathematical Methods with Engineering Applications	3
EE1201	Electrical Measurements	3
ME1201	Applied Thermodynamics I	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1203	English Language skills Enhancement II	2
IT1202	Concepts of Applied computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
ET1201	Analog Electronics	3
	Total	**25**

Semester 3 (15 weeks)

Module Code	Module Name	Credits
IS2301	Advanced Mathematics and Statistics	2
ME2302	Control Systems	3
ME2305	Industrial Management	2
ET2301	Electronic Systems	3
ET2302	Project I	2
ET2303	Telecommunication Systems	3
EE2302	Electrical Installation	2
EE2303	Electrical Machines	3
EE2304	Power Systems	3
EE2305	Project Management, Leadership and Communication	2
Total		**25**

Semester 4 (15 weeks)

Module Code	Module Name	Credits
ME2404	Industrial Automation and Mechatronics	4
ME2405	Industrial Management and Accounting	2
EE2401	Advanced Electrical Installations	3
EE2403	Electrical Machines and Drives	3
EE2404	Energy Technologies	3
EE2405	Power Electronics	3
EE2406	Power System Behaviour and Protection	3
ET2406	Project II	2
CI2402	Building Services Engineering	2
Total		**25**

2. Electronics and Telecommunication Engineering Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
IS1103	English Language Skills Enhancement I	2
EE1101	Fields and Networks	3
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1204	Mathematical Methods with Engineering Applications	3
EE1201	Electrical Measurements	3
ME1201	Applied Thermodynamics I	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1203	English Language skills Enhancement II	2
IT1202	Concepts of Applied computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
ET1201	Analog Electronics	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
IS2301	Advanced Mathematics and Statistics	2
ME2302	Control Systems	3
ME2305	Industrial Management	2
ET2301	Electronic Systems	3
ET2302	Project I	2
ET2303	Telecommunication Systems	3
EE2302	Electrical Installation	2
EE2303	Electrical Machines	3
EE2304	Power Systems	3
EE2305	Project Management, Leadership and Communication	2
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
ET2401	Advanced Electronics	3
ET2402	Data Communication & Networking	3
ET2403	Instrumentation	3
ET2404	Microcontroller & Microprocessor Systems	3
ET2405	Optical Fibre Communication System	2
ET2406	Project II	2
ET2407	Wireless & Mobile Communication	3
ME2404	Industrial Automation & Mechatronics	4
ME2405	Industrial Management and Accounting	2
Total		**25**

8.3 Division of Mechanical Engineering Technology

Head of the Division

Eng. J.M.P Gunasekera - Senior Lecturer Grade II
B.Sc.(Eng) Hons (Moratuwa), P.G Dip.(Manufacturing Systems Engineering) (Moratuwa), M.Phil (Bio-Robotics)
MIEEE, MIAE (SL), AMIE(SL)

Academic Staff

Eng. K.M Ranasiri - Senior Lecturer Grade I
B.Sc. (Eng.) (Moratuwa), PG Dip. in Industrial Engineering,
M. Tech (Industrial Engineering), C. Eng. (IESL), C. Eng. (IAESL),

Eng. M.I.R.T Fernando - Senior Lecturer Grade II
Grad.M.I Mech. E.(UK), MBA (Colombo), LL. B., MIE(SL), C. Eng., M.I.M (SL), Attorney- at- law, NDT (Moratuwa),

Eng. (Mrs) N.V Kularathne - Lecturer
B. Sc. (Eng.) (Peradeniya), M. Sc. (Comp. Sc.) (Colombo), AMIE (SL)

Dr. P.D.C Kumara – Senior Lecturer Grade II
B. Sc. (Eng.) (Moratuwa), PhD (Colombo), AMIE (SL)

Eng. L.G Chamath – Lecturer (Probationary)
B. Sc. (Eng.) (Moratuwa), AMIE (SL)

Eng. H.M.S Bandara– Lecturer (Probationary)
B. Sc. (Eng.) (Moratuwa), AMIE (SL)

Eng. (Mrs) J. B. Samarasinghe – Lecturer (On Contract)
B.Sc. (Eng) (Moratuwa), M.Sc. (Research/Energy)(Moratuwa), AMIE(SL)

Eng. Mr. Asanka Sujith – Lecturer (On Contract)
B.Sc (Eng) (Moratuwa) , AMIE (SL)
M.Sc (Reading)

Well qualified academic staff members serving to the Division and academic program teach through four semesters. Mechanical division offers common modules during semester one and semester two for all disciplines, including, Workshop Technology I & II, Engineering Drawing I & II, Engineering Mechanics, and Applied Thermodynamics. Field relevant modules are offered at semester three and four, which help students to investigate depth in Mechanical Engineering. Some of emerging technologies in Manufacturing such as, Automation & Mechatronics, Energy Technology, CAD/CAM systems, Production and Operations Management, Automotive Technology etc will be delivered through modules in second year of studies.

Division has state-of-the-art labs and workshop facilities to build the necessary skill and knowledge to students. All facilities at the Division is divided into four main sub-groups, such as Manufacturing & Production, Energy & Environment, Automation & Control and Automobile. Each group has set of laboratories and workshops to deliver the content of Mechanical Engineering Technology from semester one to semester four.

After completion of four semesters of academic work in the first and second years in the institute, students undergo in-plant training in their third year of study, which

covers semester five and semester six. Total time for in-plant training is nearly one year and students get an opportunity to train in well-established industries serving both local and foreign customers.

This Division has a total of 39 permanent staff and provides their services to build an outstanding diplomate in Mechanical Engineering Technology.

After completion of NDT in Mechanical Engineering Technology, students can obtain higher qualifications through following courses conducted by the Institution of Engineers, Sri Lanka (IESL), Open University OUSL, Institution of Incorporated Engineers, Sri Lanka (IIESL) etc.

Course Curriculum

Mechanical Engineering Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
IS1103	English Language Skills Enhancement I	2
ME1101	Automobile Technology	3
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1204	Mathematics methods with Engineering Applications	3
EE1202	Electro-Technology	3
ME1201	Applied Thermodynamics I	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1203	English Language skills Enhancement II	2
IT1202	Concepts of Applied computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
ME1203	Production and Operations Management	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
IS2301	Advanced Mathematics and Statistics	2
EE2301	Applied Electricity	3
ME2301	Computer Aided Design and Engineering	2
ME2302	Control Systems	3
ME2303	Design of Machine Elements	3
ME2304	Industrial Engineering	2
ME2305	Industrial Management	2
ME2306	Manufacturing Technology I	4
ME2307	Mechanics of Machines	2
ME2308	Project I	2
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
CI2402	Building services Engineering	2
EE2402	Applied Energy Technologies	2
ME2401	Advanced Vehicle Technology	2
ME2402	Applied Thermodynamics II	3
ME2403	Design for Manufacture and Assembly	2
ME2404	Industrial Automation & Mechatronics	4
ME2405	Industrial Management and Accounting	2
ME2406	Manufacturing Technology II	3
ME2407	Power Hydraulics and Fluid Machinery	3
ME2408	Project II	2
Total		**25**

8.4 Division of Maritime Studies

Head of the Division

Mr. G.G Jayarathne - Senior Lecturer Grade I
M.Sc. (Marine/ Mech. Eng.), M. Phil. (Marine/Mech. Eng.), CEng (UK), CMarEng (London), MIMarEST (UK), MSNAME (USA), MBE (UK)

Course Coordinator

Course Coordinator – Maritime Studies
Capt. C.S Batagoda
Master Mariner (Class -1), AFNI, MBA(UK) ,Cargo surveyor

Maritime Division is small enough to be friendly but large enough to offer a comprehensive range of programs. High academic standards are supported by the services, students need to meet these standards.
Division of Maritime Studies established in 1978, under the Department of Mechanical Engineering, in internationally recognized prestigious University, University of Moratuwa, which was originated in 1972 by the University Act No.1 of 1972 under the Ministry of Higher Education. At it's inception, section of Maritime Studies conducted the National Diploma in Technology in Marine Engineering Course (Watch keeping Engineer) and then extended the facilities in 1987 to commence National Diploma in Technology in Nautical Studies (Officer in Navigational Watch) course under the auspices of United Nation Development Programme and the Ministry of Ports and Shipping and Rehabilitation. The Section of Maritime Studies has recognized as a separate Division as per the letter no. UGC/AC/Other/ITUM issued by University Grants Commission with effect from 20th February 2019.

The Division of Maritime Studies conducts two National Diploma in Technology officer level Courses, namely;

- Marine Engineering Technology with annual intake of 20 number of cadets per year and
- Nautical Studies with annual intake of 20 number of cadets per year.

Since diplomates giving their service at on-board ships, International rules and regulations governed by International Maritime Organization (IMO) has been implemented. in the program.

Academic Programme

	Semester 01	Semester 02	Semester 03	Semester 04	Semester 05	Semester 06
Marine	**Academic**	**Academic**	**Academic**	**Academic**	**Inplant training**	
Nautical	**Academic**	**Academic**	**Onboard ship training**		**Academic**	**Academic**

Sea training to the Nautical Studies students is provided by the Ceylon Shipping Corporation and other shipping agencies while inplant training for marine engineering students are offered by Colombo Dockyard Pvt Ltd, Sri lanka ports authority and numerous Power plants in the country. The process of inplant training is monitored and assessed by National Apprentice and Industrial Training Authority (NAITA). The division encourages female students also to follow the Nautical Studies Course.

All the cadets must obtain a valid CDC (Continuous Discharge Certificate) issued by Shipping Ministry of Srilanka after following valid Mandatory Short Courses on Elementary First Aid, Personal Survival Techniques, Fire Prevention and Fire Fighting, Personal Safety and Social Responsibilities and Maritime English Course.

Merchant Shipping Secretariat (MSS) at Ministry of Ports and Shipping annually conducts quality audits to verify the standards of courses offered by the Division of Maritime Studies.

Quality Policy statement in English is displayed at important places in d to be visible to all employees, students and other visitors to the Division.

Course Curriculum

1. Marine Engineering Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
NT1104	Maritime English I	2
MR1101	Marine Engineering Knowledge I	3
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1204	Mathematics methods with Engineering applications	3
EE1202	Electro-Technology	3
ME1201	Applied Thermodynamics I	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IT1202	Concepts of Applied computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
NT1204	Maritime English II	2
MR1201	Marine Engineering Knowledge II	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name (Draft)	Credits
MR2301	Engineering Knowledge (General) I	3
MR2302	Engineering Knowledge (Motor) I	3
MR2304	Instrumentation and Control Systems I	2
MR2305	Marine Engineering Drawing I	2
MR2306	Maritime Safety & Law I	2
ME2307	Mechanics of Machines	2
MR2307	Naval Architecture & Ship Construction I	3
MR2308	Project I	2
MR2309	Advanced Workshop Technology I	4
MR2310	Ship Board Electricals I	3
Total		**26**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
MR2401	Advanced Workshop Technology II	2
MR2402	Basic Management	1
MR2403	Engineering Knowledge (General) II	3
MR2404	Engineering Knowledge (Motor) II	3
MR2405	Instrumentation and Control Systems II	2
MR2406	Marine Engineering Drawing II	2
MR2407	Maritime Safety & Law II	2
MR2408	Naval Architecture & Ship Construction II	3
MR2409	Project II	2
ME2402	Applied Thermodynamics II	3
MR2410	Ship Board Electricals II	2
Total		**25**

2. Nautical Studies & Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
NT1101	Cargo Work and Seamanship I	2
NT1102	General Ship Knowledge I	2
NT1103	Marine Operation I	2
NT1104	Maritime English I	2
NT1105	Meteorology I	2
NT1106	Navigation	3
Total		**26**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS 1204	Mathematics methods with Engineering Applications	3
EE 1202	Electro-Technology	3
IT 1202	Concepts of Applied Computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
NT 1201	Cargo Work and Seamanship II	3
NT 1202	General Ship Knowledge II	2
NT 1203	Marine Operation II	2
NT 1204	Maritime English II	2
NT 1205	Meteorology II	2
NT 1206	Navigation II	3
Total		**24**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
NT2301	Basic Management	2
NT2302	Bridge Equipment I	2
NT2303	Coastal Navigation I	3
NT2304	Marine Operation III	3
NT2305	Marine Meteorology III	2
NT2306	Ocean and Offshore Navigation I	3
NT2307	Operation Safety I	4
NT2308	Project I	2
NT2309	Ship Construction I	2
NT2310	Ship Stability I	2
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
NT 2401	Bridge Equipment II	2
NT 2402	Coastal Navigation II	3
NT 2403	Engineering Knowledge	2
NT 2404	Marine Meteorology IV	2
NT 2405	Marine Operation IV	3
NT 2406	Ocean & Offshore Navigation II	3
NT 2407	Operational Safety II	4
NT 2408	Project II	2
NT 2409	Ship Construction II	2
NT 2410	Ship Stability II	2
Total		**25**

8.5 Division of Polymer and Chemical Engineering Technology

Head of the Division

Dr. (Mrs.) M. C. W. Somarathne - Senior Lecturer Grade II
B. Sc. (Peradeniya). M.Sc. (Sri Jayawardhanapura), PhD (Moratuwa)

Academic Staff

Dr. (Mrs.) G. K. Jayathunga - Lecturer
B. Sc. (Eng.) (Moratuwa), M.Sc. (Moratuwa), PhD (Moratuwa), AMIE(SL)

Ms. A. D. Weerakoon - Lecturer
B. Sc. (Sri Jayawardhanapura), M.Sc. (Sri Jayawardhanapura)

Mrs. N.D.I.Kumarage – Lecturer (Probationary)
B. Sc. (Eng.) (Moratuwa), M.Sc. (Moratuwa), AMIE(SL)

Mrs. I.R.Samarathunga – Lecturer (Probationary)
B. Sc. (Eng.) (Peradeniya), M.Phill. (Moratuwa), AMIE(SL)

Mr. H.T.S.Jayalath – Lecturer (Probationary)
B. Sc. (Eng.) (Moratuwa), AMIE(SL)

Mrs. R.L.P.Ramasinghe – Lecturer (Probationary)
B. Sc. (Eng.) (Moratuwa), M.Sc. (Moratuwa), AMIE(SL)

General

As the name of the division implies, there are two different technological courses conducted by the division, namely Polymer Technology and Chemical Engineering Technology. Each course consists of two years of academic work and one year of industrial training.

Besides the National Diploma in Technology course, the division serves the industry to enhance the quality of their products by caring out testing and analysis. Also the division involves in projects to solve manufacturing/quality related issues in the industry with the support of students, which promotes industry- institute relationship.

Chemical Engineering Technology

Chemical Engineering Technology is concerned with industrial processes in which raw materials are changed or separated into useful products. The aim of the Chemical Engineering Technology course is to provide knowledge to the diplomates to serve any industry dealing with chemical and process engineering technologies.

Chemical Engineering diplomates will be mostly involved in fabrication, operation, control, maintenance of plant & equipment and research work in industries such as petroleum, food, paper, salt, water and waste water treatment, production of chemicals, soap, detergents, fertilizer, polymer ceramic etc.

Polymer Technology

Polymer Technology course includes a study of the scientific technological aspects of polymeric materials, and their usage in manufacturing of polymer based products, characterization and testing of polymer materials and products. 'Polymers' include a wide variety of materials however this program concerns highly the technology of plastics, rubber, fibres, surface coatings and adhesives, and provides all round knowledge and skills to compete in polymer industry.

The fast growing polymer industry in the world enhances the demand in local and overseas for employees with sound academic and professional knowledge on polymer technology.

Course Curriculum

1. Chemical Engineering Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
IS1103	English Language Skills Enhancement I	2
CH1101	Process Engineering Technology I	3
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1204	Mathematical Methods with Engineering Applications	3
EE1202	Electro-Technology	3
ME1201	Applied Thermodynamics I	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1203	English Language skills Enhancement II	2
IT1202	Concepts of Applied computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
CH1201	Process Engineering Technology II	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
IS2301	Advanced Mathematics and Statistics	2
EE2301	Applied Electricity	3
ME2305	Industrial Management	2
PT2301	Communication Skills and Engineering Ethics	2
CH2301	Environmental Technology and Occupational Safety	3
CH2303	Fuels and Lubricants	3
CH2304	Heat and Mass Transfer	4
CH2305	Project I	2
CH2306	Unit operations I	4
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
ME2405	Industrial Management and Accounting	2
PT2407	Quality Management	2
CH2401	Energy Efficiency and Conservation	2
CH2402	Environmental Engineering and Management	2
CH2403	Food and Bio Process Technology	4
CH2404	Polymer Processing Technology	4
CH2405	Process Dynamics & Control	3
CH2406	Project II	2
CH2407	Unit Operations II	4
Total		**25**

2. Polymer Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
IS1103	English Language Skills Enhancement I	2
PT1101	Introduction to Polymer Science	3
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1204	Mathematical Methods and applications I	3
EE1202	Electro-Technology	3
ME1201	Applied Thermodynamics I	3
CI1202	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1202	English Language Skills Enhancement II	2
IT1202	Concepts of Applied Computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
PT1201	Polymer Technology	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
IS2301	Advanced Mathematics and Statistics	2
CH2302	Environmental Technology and Occupational Safety in Process Industries	3
ME2303	Design of Machine Elements	3
ME2305	Industrial Management	2
PT2301	Communication Skills and Engineering Ethics	2
PT2302	Latex Technology	4
PT2303	Polymer Science	4
PT2304	Polymeric Materials and Degradation	3
PT2305	Project I	2
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
ME2405	Industrial Management and Accounting	2
PT 2401	Manufacturing Technology of Plastics Products	3
PT 2402	Manufacturing Technology of Rubber Products	4
PT 2403	Material Characterization and Product Testing	3
PT 2404	Polymer Engineering	3
PT 2405	Process Engineering Fundamentals	4
PT 2406	Project II	2
PT 2407	Quality Management	2
PT 2408	Surface Coating and Adhesives	2
Total		**25**

8.6 Division of Textile and Clothing Technology

Head of the Division

Dr. (Mrs.) K. M. W. Abeykoon - Senior Lecturer Grade I
B. Sc. (Eng.) (Moratuwa), M. Phil. (Kelaniya), PhD (Moratuwa)

Academic Staff

Dr. (Mrs.)W. P. S. K. Perera - Senior Lecturer Grade II
B. Sc. (Eng.)(Moratuwa), PhD (Peradeniya)

Ms. V.G.P.Pabasara – Lecturer (Probationary)
B. Sc. (Eng.) (Moratuwa), AMIE(SL)

Textile & Clothing Technology

Textile and Clothing Technology study programme provides an excellent all round education and preparation for employment in Textile and Clothing and related fields. This course includes modules such as Fiber Science, Yarn and Fabric Manufacturing and Testing processes, Pattern development, Industrial Engineering and Clothing Production Technologies.

To enhance the students' knowledge while reducing the gap between industry and the academic programmes several measures are being carried out such as visiting factories, carrying out industrial projects and conducting workshops by eminent personnel in the industry. After two years of academic study programme, students get industrial experience during the third year in their one-year training programme.

Diplomates typically go into a wide variety of jobs in the Textile and Clothing industry locally and overseas.

Course Curriculum

Textile & Clothing Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics and Statistics	3
CH1102	Properties of Materials	3
ME1103	Engineering Mechanics	3
CI1102	Strength of Materials	3
ME1104	Workshop Technology I	2
ME1102	Engineering Drawing I	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IT1103	Computer Applications	2
IS1103	English Language Skills Enhancement I	2
TT1101	Raw Materials and Fibre Science I	3
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1204	Mathematical Methods and applications I	3
EE1202	Electro-Technology	3
TT1202	Yarn Manufacture	3
CI1203	Fluid Mechanics	3
ME1204	Workshop Technology II	2
ME1202	Engineering Drawing II	2
IS1203	English Language Skills Enhancement II	2
IT1202	Concepts of Applied Computing	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
TT1201	Raw Materials and Fibre Science II	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
IS2301	Advance Mathematics and Statistics	2
TT2301	Colouration and Finishing Technology I	3
IS2302	Communication Skills	2
ME2305	Industrial Management	2
TT2302	Knitting Technology I	4
TT2303	Physical Testing of Textiles	2
TT2304	Principles of Work Study and Clothing Production	2
TT2305	Product Development I	3
TT2306	Project I	2
TT2307	Woven Fabric Structures	3
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
TT2401	Clothing Equipment Technology	3
TT2402	Clothing Technology	3
TT2403	Coloration and Finishing Technology II	3
TT2404	Communication and Ethics	1
TT2405	Knitting Technology II	1
TT2406	Product Development II	3
TT2407	Projects II	2
TT2408	Statistics and Quality Control	4
TT2409	Weaving Technology	3
ME2405	Industrial Management and Accounting	2
Total		**25**

8.7 Division of Interdisciplinary Studies

Head of the Division

Dr. (Mrs.) D. D. G. A. D. S. Saparamadu- Senior Lecturer Gr.II
B. Sc. (Sri Jayawardhanepura), PhD (Moratuwa)

Academic Staff

Mrs. P. S. Yatapana - Senior Lecturer Gr. II
B.Sc (SriJayawardhanapura), PGDip.(Stat.)(Sri Jayawardhanapura,), M. Sc. (Colombo), M.Phil. (Colombo)
Diploma in Counselling and Psychotherapy

Mrs. C. P. N. Attygalle - Lecturer
B. Sc. (SL), M. Sc. (Colombo)

Mrs. S. Nagodavithana – Senior Lecturer Gr.I
B. A. (Sri Jayawardhanapura), M. A (Kelaniya), M.Phil.(Kelaniya)

Dr. (Mrs.) S.C.Mathugama - Senior Lecturer Gr.II
B. Sc. (Colombo), M. Sc. (Moratuwa), PhD (Moratuwa)

Mrs. P. B. T. K. Premarathna- Lecturer (Probationary)
BA (Kelaniya), MA in Linguistics (Kelaniya), Dip. In ICT

Mrs. J. Hanoon Umar- Lecturer (Probationary)
M.Res. (London), M.A. (Kelaniya), B.A. (OUSL), B.A. (EUSL),
PGD (Sri Jayawardenapura), PGD (Colombo), Cambridge CELTA (Cambridge)
CTHE (Colombo), Professional Dip. in Counselling, (SEUSL), Sworn Translator (Ministry of Justice)
(On study leave)

Mrs. L. P. Kumarasiri- Lecturer (Probationary)
B.A(Colombo, Sripai Campus)
Vishardha in Bhartha Natyam

Ms. A.K.D.K. Chathurangi - Lecturer (On Contract)
B.Sc (Colombo) M.Sc (Moratuwa)

General

The Division of Interdisciplinary Studies was formed with the establishment of the Institute of Technology of the University of Moratuwa in October 2000. The Division conducts courses in English, Mathematics and Information Technology for the National Diploma in Technology students up to 2018. From 2019, Information Technology modules will be offered by Division of Information Technology. The academic staff of the Division includes experienced teachers. Some of the senior members had been serving in the Faculty of Engineering prior to the establishment of the Institute.

In 2018 two new modules, Aesthetic Studies and Sports Studies were introduced under humanities stream.

Modules Offered by the Division

Semester	Code	Module	Credits
1,2	IS1101	Aesthetic Studies	2
1	IS1103	English Language Skills Enhancement I	2
1	IS1104	Mathematics and Statistics	3
1,2	IS1205	Sports Studies	2
2	IS1203	English Language Skills Enhancement II	2
2	IS1204	Mathematical Methods with Engineering Applications	3
3	IS2301	Advanced Mathematics and Statistics	2
3	IS2302	Communication Skills	2
3	IS2303	Computational Mathematics and Advanced Statistics	3
4	IS2401	Communication &Technical Writing	2
4	IS2402	Industrial Statistics and Modelling Computations	3

1. Mathematics

Mathematics and statistics modules conducted by the Division emphasize on teaching the basic concepts of Mathematics and statistics, the development of rational thinking in formulating and solving engineering and technical problems and the application of mathematical knowledge in solving broadly defined real world problems.

2. English

English courses offered by the Division aim at addressing English language needs of students who enroll to follow the National Diploma in Technology programme. A foundation course in English is conducted for all newly admitted students prior to the commencement of the 1st year academic programme with the intention of helping them to switch over from their mother tongue to English as the medium of instruction. Thereafter students follow English language courses three hours per week throughout the first year of their studies. The course components aim at producing engineering diploma holders with strong communication skills who will be able to function effectively in diverse work environments.

3. Sports Studies

Sports Studies course is designed to develop personality, leadership and team work skills and appreciation of Sports of engineering technology students. Sports practical and theory components will be introduced to the course covering areas such as basics of Introduction about Sports and Physical Activities, Volleyball, Cricket, Netball, Athletics, Football, Badminton, Basic Techniques of First Aid and

Injury Prevention Methods, Basic concept of Physical Fitness, Aerobics, Yoga and Basic Sports Leadership and Management. The students are expected to think reflectively and reflexively in problem solving and possess communication skills and improve human qualities required to be an overall quality person in the respective fields through Sports Studies.

4. Aesthetic Studies

Aesthetic Studies has been introduced to the ITUM curriculum in 2018 to develop creative and critical thinking as well as aesthetical capabilities of its students. The objective is to provide a well-balanced education that would augment students personal, professional life leading to socially better fitting personalities. Under Aesthetic Studies module, there are both lectures and practical .For practical, students should choose one subject out of four – Dance, Drama, Music or Visual Art. Duration of this course is 15 weeks.

8.8 Division of Information Technology

Head of the Division

Dr. (Mrs.) K. Galappaththi –Senior Lecturer Gr.II
B. Sc. (Ruhuna), MCS. (Colombo), PhD (Brunei)

Academic Staff

Mrs. A. U. P. Athukorala- Lecturer (Probationary)
B.Sc (Peradeniya), PGD (Moratuwa), AMIESL

The NDT in IT programme is designed to equip students with state-of-the art expertise in Information Technology.

This program encompasses a through grounding in the fundamental skills necessary as well as providing a theoretical understanding which is vital for an IT diplomate. They are also taught communication and personal skills in order to enable them to interact effectively in a demanding work environment. The programme consists of academic activities at the ITUM in the first four academic semesters and Industrial Training in the last two semesters.

Course Curriculum

Information Technology

Semester 1 (15 Weeks)

Module Code	Module Name	Credits
IS1104	Mathematics & Statistics	3
IT1101	Applied Science for Information Technology	3
IT1102	Business Applications in Information Technology	3
IT1104	Database Management Systems	2
IT1105	Digital Computers	3
IT1106	Fundamentals of Programming	3
IT1107	Operating Systems	2
IT1108	Principles of GIS and Applications	2
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IS1103	English Language Skills Enhancement I	2
Total		**25**

Semester 2 (15 Weeks)

Module Code	Module Name	Credits
IS1101 or IS1205	Aesthetic Studies or Sports Studies	2
IS1203	English Language Skills Enhancement II	2
IS1204	Mathematical Methods with Engineering Applications	3
IT1201	Computer Networks	3
IT1203	Digital Electronics	3
IT1204	Fundamentals of Software Engineering	2
IT1205	IT Security and Digital Forensics	2
IT1206	Object Oriented Analysis and Design	2
IT1207	Object Oriented Programming	3
IT1208	Web Technologies	3
Total		**25**

Semester 3 (15 Weeks)

Module Code	Module Name	Credits
IT2301	Accounting &Engineering Economics	2
IT2302	Applied Computer Graphics and Multi Media Technologies	3
IT2303	Enterprise Software Development	3
IT2304	Human Computer Interaction	2
IT2305	Management Information Systems	2
IT2306	Medical Instrumentation	3
IT2307	Microcontrollers & Industrial Automation	3
IT2308	Project I	2
IT2309	Software Project Management	2
IS2303	Computational Mathematics and Advanced Statistics	3
Total		**25**

Semester 4 (15 Weeks)

Module Code	Module Name	Credits
IS2401	Communication &Technical Writing	2
IS2402	Industrial Statistics and Modelling Computations	3
IT2401	Business Intelligence and Analytics	3
IT2402	Cloud Computing	2
IT2403	Digital Marketing	2
IT2404	Intelligent System & Machine Learning	3
IT2405	Internet of Things	3
IT2406	Mobile Communication	3
IT2407	Project II	2
IT2408	Software Testing & Quality Controlling	2
Total		**25**

9. INDUSTRIAL TRAINING DIVISION

Training Engineer
Eng. Kamalnath Jinadasa
NDT, MSc [Moratuwa], AMIE[SL], MPRI[SL], FIIE[SL]

The National Diploma in Technology is a three-year full time course where the third year is set apart for Industrial Training. Thus the period of Industrial Training is the bridge between academic studies at the University and professional competence as a Diplomate.

The primary objective of Industrial Training is to provide practical experience to enhance the understanding of the theoretical principles learnt, and to acquire skills and competence in the relevant discipline, with the right work attitude, in order to effectively and efficiently contribute to Engineering Technology as a Diplomate.

A student successful at the first and second year examinations and successful in completing the industrial training assignments and assessments becomes a fully qualified Diplomate.

The Industrial Training Division of the Institute of Technology is an independent service unit. It is presently located on the 3rd floor in room number U 3220, in the main Administration Building. The Industrial Training Division coordinates with the National Apprentice and Industrial Training Authority (NAITA) in organising Industrial Training for National Diploma in Technology (NDT) students in recognised organisations in Sri Lanka. In the selection of students to training organisations their academic performance at the examinations are taken into consideration.

The programme is so designed to have an industrial bias, with the inclusion of a compulsory 12-month period of Industrial Training. This will be in two recognised organisations, six months each accepted by NAITA and ITUM.

During Industrial Training, students are expected to maintain a Daily Diary, submit Training Reports periodically and present themselves at face-to-face Interviews. Officers from NAITA, Academic and Training staff from ITUM will conduct visits to supervise the progress of the trainees. These evaluations are prerequisites to assess student's level of performance during the period of training.
Since the NDT programme is conducted entirely in the English medium, students are expected to develop their verbal communication and report writing skills at the English language classes conducted during the first year. This will help them during the Industrial Training period.

10.SCHEME ADOPTED FOR THE PAYMENT OF BURSARIES

This scheme adopted as per the University Grants Commission Circular No. 11/2018 dated 11th October 2018.

1. **Eligibility to apply for Bursaries**

Any student shall be eligible to apply for a Bursary if he/she satisfies each of the following conditions.

1.1 The student should be a citizen of Sri Lanka

1.2 He/She should be registered as an internal student for a full time course of study in a University or an Institute affiliated to a University

1.3 **Parental Income ceiling**
Parental income should be equal to or less than Rs. 500,000/-per annum with effect from the Academic Year 2017/2018 onwards.

1.4 The following concessions to be added to the Income Ceilings specified in 1.3 above

(a) Rs. 24.000/- per school going sister/brother who is under 19 years or under, up to a maximum of three children in a family.

(b) Rs. 36,000/-per child following a course of study in any University or Higher Educational Institution in Sri Lanka, to determine the eligibility of the 2nd child and above condition is that the first child is not in receipt of a Bursary / Mahapola.

1.5 At the time of selection of student for Bursaries, if the parents of the students are separated and there is neither documentary evidence to prove it nor legal action initiated in relation to the said separation, the determination of the income ceiling shall be considered after receiving the Grama Niladhari Report with the police report of the respective Police Division.

1.6 If the student is employed his/her income from such employment should be added to the parental income.

1.6 If the student is employed and married, the student and the spouse should be considered as a separate family and his/her eligibility for Bursaries will be determined according to the rules and regulations specified in Sections 1.3 and 1.4 in this Circular.

2. 2.1 A student who satisfies the eligibility criteria given in section 1.3 above, will been titled to a Bursary of Rs. 4,000/- per month subject to maximum of 10 instalments per academic year during his/her academic period.

2.2 Those students who are eligible to receive Mahapola Scholarship are entitled to receive Rs. 5,000/- per month subject to maximum of 10 instalments per academic year during his/her academic period.

3. **Other conditions governing the payment of Bursaries**

3.1 Any student who provides false or inaccurate statements or who fails to disclose any material fact in his application is liable to have his registration as an internal student cancelled.

3.2 Students who have applied for a Bursary or who are in receipt of a Bursary should communicate in writing to the Registrar of the University or to the Director of the Institute in respect of any changes of family income, marital status, employment income etc;

3.3 Students who are not in receipt of a Bursary are given an opportunity to apply for a Bursary, if his / her parental income changes due to natural or any other reason/s acceptable to the Registrar of the University or Director of the Institute during his / her academic period.

3.4 The Bursaries are paid only during the period of study in the University / Institute. The recipient of a Bursary who for any reason temporarily ceases to follow the course of study or leaves the University / Institute before completion of the course of study should communicate that fact in writing to the Registrar of the University or the Director of the Institute as the case may be.

3.5 The payment of a Bursary to any student may be completely stopped or temporarily suspended for any one or more of the following reasons:

(i) if the student fails to pass any examination completely, provided however, that the Bursary may be paid to any student who has been referred at the first year examination and who is following the course of study prescribed for the second year.

(ii) if the student does not pursue his studies diligently

(iii) if the student conducts himself in an undisciplined manner.

(iv) for any other valid reason to be decided upon at the discretion of the Vice- Chancellor / Director.

3.6 University authorities will use their discretion on matters relating to the restoration of Bursaries, which have been stopped or temporarily suspended.

3.7 Each eligible student will be paid a maximum of 10 monthly instalments per academic year. Anything over and above 10 instalments will not be paid under any circumstances without prior approval of the UGC.

3.8 Conditions applicable to Mahapola scholarships are also applicable to Bursaries.

3.9 A Student who is in receipt of a Mahapola scholarship will not be eligible to receive a Bursary.

11. PAYMENTS TO BE MADE BY STUDENTS AT THE ITUM

Fresher Student Registration	-	Rs. 1850/-
Includes:		
Library & Laboratory Deposit	-	Rs. 1000/-
Registration Fee	-	Rs. 150/-
Orientation Programme Fee	-	Rs. 250/-
Application Fee	-	Rs. 75/-
Admission Fee	-	Rs. 75/-
Student Hand Book (University/ITUM)	-	Rs. 300/-
Annual Registration	-	Rs. 100/-
(2nd Year / 3rd Year)		
Missed/failed Course work fee		
1 - 2	-	Rs. 50/-
3 - 6	-	Rs. 100/-
7 - 12	-	Rs. 150/-
13 - 18	-	Rs. 200/-
19 –above	-	Rs. 250/-
Academic Book	-	Rs. 1000/-
Lost Identity Card	-	Rs. 500/-
Record Book	-	Rs. 500/-

Examination

Repeat one subject	-	Rs. 100/-
Every additional module	-	Rs. 100/-

Award of Diploma

Supplication	-	Rs. 1000/-
Final Certificate	-	Rs. 500/-
Additional academic Transcript	-	Rs. 500/-

12. IMPORTANT TELEPHONE NUMBERS

Institute of Technology

1. ***Competent Authority –Prof. S.M.A. Nanayakkara***
   0112124001 Ext. 1111 (Office)
   0773165188 (Mobile)

2. ***Deputy Registrar – Mr. N. D. Kuruppuarachchi***
   0112124002 Ext. 1102 (Office)
   0775806253 (Mobile)

   i. ***Assistant Registrar (General Administration)***
   Mrs. L. P. Perera
   0112124116 Ext. 1116 (Office)

   ii. ***Assistant Registrar (Academic & Student affairs)***
   Ms. K. M. H. Malepathirana
   0112124010 Ext. 1123 (Office)

   iii. ***Assistant Registrar (Examination)***
   Ms. R. M. H. A. Lakmali
   0112124004 Ext. 1109 (Office)

3. ***Senior Assistant Bursar – Mrs. S. P. D. Peries***
   0112124003 Ext. 1115 (Office)
   0718120826 (Mobile)

   i. ***Assistant Bursar (Supplies)***
   Mrs. P.J.Weerakkodiarachchi
   Ext. 1175 (Office)

   ii. ***Assistant Bursar (Payments)***
   Mrs. A. Liyanagamage
   Ext. 1148 (Office)

4. ***Acting Assistant Librarian – Dr. (Mrs.) G.D.M.N. Samaradiwakara***
   Ext. 1136 (Office)

5. ***Warden - Dr. (Mrs.) W. B. M. Thoradeniya***
   0112124201 Ext. 1201, 1222 (Office) 0777361155 (Mobile)

   i. ***Sub Warden – Male***
   Mr. H. M. K. Herath
   0718658971 (Mobile)

   ii. ***Sub Warden – Female***
   Mrs. A. M. H. Kamala
   0774439538 (Mobile)

6. Heads of Divisions

i. Civil Engineering Technology – Dr. (Mrs.) N.P.K.Semananda
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ii. Electrical, Electronics & Telecom Eng. Technology– Eng. G. D. Nanayakkara

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iii. Mechanical Engineering Technology– Mr. J. M. P. Gunasekara
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iv. ***Maritime Studies – Mr. G.G. Jayarathna***
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a. Course Co-ordinator - Capt. Batagoda
0770691453 (Mobile)

v. Polymer and Chemical Engineering Technology – Dr. (Mrs.) M. C. W. Somarathne
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vi. Interdisciplinary Studies –Dr. (Mrs.) **D. D. G. A. D. S.Saparamadu**
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vii. Textile and Clothing Technology – Dr.(Mrs.) Kokila Abeykoon
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viii. Information Technology – Mrs. Kalpana Galappaththi
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7. ***Training Engineer – Eng. Kamalnath Jinadasa***
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8. ***Senior Student Counsellor / ITUM – Mrs. S. M. Kannangara***
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9. Professional Counsellor (Visiting) – Mrs. Kalani Dodamthenna
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10. Student Councellors

i. Electrical & Electronics Eng. Technology –

Mrs. A. W. C. K. Atugoda
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ii. Civil Eng. Technology –

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Mr. Dulan Gunasekara
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Mr. Udara Bulathsinghala
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Mr. Sanjaya Madhuranga
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iii. Chemical & Polymer Eng. Technology –

Mr. Sandaruwan Jayalath
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Mrs. Iroshini Kumarage
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iv. Textile & Clothing Technology –

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v. Mechnaical Eng. Tech. –

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Mr. Senaka Bandara
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Capt. Batagoda
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vi. Interdisciplinary Studies

Mrs. P. S. Yatapana
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Mrs. Lakni Kumarasiri
0714170154 (Mobile)

vii. Information Technology

Mrs. K. Galappaththi
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11. *Medical Officers*

Dr. Maheepala
Ext. 3011 (Office)

12. Security Inspector – Mr. P. C. Pathmasiri
0716327597 (Mobile) Ext. 1160 (Office)